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Please find below and/or attached an Office communication concerning this application or proceeding.

Non-Responsive Amendment

1. The reply filed on 07 August 2006 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s):

2. The amendment and response filed 07 August 2006 is noted. However, the print quality of the claims is such that the Examiner is unable to adequately decipher the annotations for the amendments. Attached hereto is a copy of the claims for review by the Applicant.

3. Since the above-mentioned reply appears to be *bona fide*, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jon M. Lockard, Ph.D.** whose telephone number is **(571) 272-2717**. The examiner can normally be reached on Monday through Friday, 7:00 AM to 4:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Brenda Brumback**, can be reached on **(571) 272-0961**.

The fax number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see **http://pair-direct.uspto.gov**. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

Jon M. Lockard, Ph.D.
September 27, 2006

CHRISTINE J. SAOUD
PRIMARY EXAMINER
Christine J. Saoud

Attachment

In the Claims

1-13 (canceled).

14 (currently amended). An isolated polynucleotide selected from the group consisting of:

a) a polynucleotide encoding a polypeptide comprising an amino acid sequence selected from the group consisting of:

i) the amino acid sequence of SEQ ID NO:2; and

ii) an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2 and binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII);

b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, or the complement thereof;

c) a polynucleotide that: (i) encodes a polypeptide binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII); and (ii) has at least 95% identity to the nucleotide sequence of SEQ ID NO: 1 or 3;

c) a polynucleotide fragment comprising nucleotide positions 1 to 140; 141 to 460; 460 to 690; or 87 to 346 of SEQ ID NO: 1 or nucleotide positions 1 to 3038; 1 to 421; 422 to 557; 2158 to 2218; or 2620 to 3039 of SEQ ID NO: 3; and

d) a polynucleotide which hybridizes under stringent conditions to a polynucleotide as set forth in (a) or (b) or (c) comprising nucleotide positions 1 to 140; 141 to 460; 460 to 690; or 87 to 346 of SEQ ID NO: 1, said stringent conditions comprising a hybridization step at 65° C in the presence of 6 x SSC buffer, 5 x Denhardt's solution, 0.5% SDS and 100µg/ml of salmon sperm DNA followed by four washing steps comprising two washings of 5 minutes at 65°C in a 2 x SSC and 0.1%SDS buffer; one washing of 30 min at 65°C in a 2 x SSC and 0.1% SDS buffer, and one washing of 10 minutes at 65°C in a 0.1 x SSC and 0.1%SDS buffer.

15 (previously presented). The polynucleotide of claim 14, further comprising a label.

16 (previously presented). The polynucleotide of claim 14, wherein said polynucleotide is bound to a solid support.

17 (previously presented). A recombinant vector comprising the polynucleotide of claim 14.

18 (currently amended). ~~A host cell~~ An isolated host cell comprising the recombinant vector of claim 17.

19 (previously presented). A method for producing a polypeptide, said method comprising:

a) providing a host cell comprising the recombinant vector of claim 17; and

b) culturing said host cell under conditions conducive to the expression of said polypeptide.

20 (previously presented). The method of claim 19, further comprising recovering the polypeptide produced by said host cell.

21 (currently amended). The polynucleotide according to claim 14, wherein said polynucleotide has at least 95% nucleotide identity with the polynucleotide of SEQ ID NO:1 and said polynucleotide encodes a polypeptide that binds to the polypeptide g34782 or to CaM-KII.

22 (currently amended). The polynucleotide according to claim 14, wherein said polynucleotide has at least 95% nucleotide identity with the nucleotide sequence of SEQ ID NO:3 and said polynucleotide encodes a polypeptide that binds to the polypeptide g34782 or CaM-KII.

23 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

21-28 (canceled).

29 (currently amended). The polynucleotide according to claim 14, wherein said polynucleotide encodes a polypeptide comprising an amino acid sequence which is at least 95% identical to the amino acid sequence of SEQ ID NO: 2 and binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII).

30-31 (cancelled).

32 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO:1 or the complement thereof.

33 (previously presented). The polynucleotide according to claim 14, wherein said polynucleotide comprises the nucleotide sequence of SEQ ID NO:3 or the complement thereof.

34 (previously presented). The polynucleotide according to claim 29, wherein said polynucleotide is naturally occurring.

35-46 (canceled).

47 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

48 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide encoding a polypeptide comprising an amino acid sequence that: (i) is at least 95% identical to the amino acid sequence of SEQ ID NO:2; and (ii) binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII).

49 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide comprising SEQ ID NO:1 or the complement thereof.

50 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide comprising SEQ ID NO:3 or the complement thereof.

51 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide that: (i) encodes a polypeptide binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII); and (ii) has at least 95% identity to the nucleotide sequence of SEQ ID NO: 1.

52 (new). The polynucleotide according to claim 14, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide that: (i) encodes a polypeptide binds to the polypeptide g34782 or binds to a calcium/calmodulin-dependent kinase II (CaM-KII); and (ii) has at least 95% identity to the nucleotide sequence of SEQ ID NO: 3.